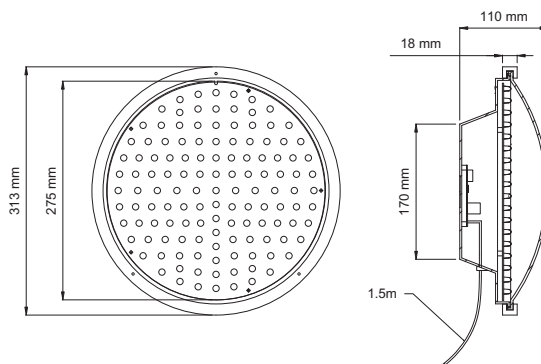


# 12" VEHICLE TRAFFIC SIGNALS

## Meet Caltrans, ITE specification

### Specifications

- Operates at -40°C(-40°F) to +74°C(165°F).
- UV stabilized scratch resistant shell.
- Conforms to NEMA Moisture Resistance STD, 250-1991 for type 4 enclosures.
- Fuse and transient suppressor incorporated for line and load protection.
- Power Factor greater than 0.9.
- Operating Voltage Range: 80V~135V.
- Total Harmonic Distortion < 20%.
- Meet Fcc Title 47. Subpart B Section 15
- Regulations for Electrical Noise.



Color	Model Number	Model type	Size	Power Consumption (Watt)	Dominate Wavelength (nm)	Intensity loss Due to Single LED failure	Temperature compensation
Green	TRA-G12DF-G	Round Disc	12"/300 (mm)	< 11	499~509	< 5%	Yes
Green	TRA-G12EG-B1	Round Disc	12"/300 (mm)	< 15	499~508	< 5%	Yes
Amber	TRV-Y12EG-M	Round Disc	12"/300 (mm)	< 22	499~509	< 5%	Yes
Amber	TRA-Y12DG-G	Round Disc	12"/300 (mm)	< 9	586~592	< 5%	Yes
Red	TRV-R12EG-A	Round Disc	12"/300 (mm)	< 11	>= 623	< 5%	Yes
Red	TRV-R12EG-B	Round Disc	12"/300 (mm)	< 11	>= 623	< 5%	Yes
Red	TRV-R12DG-G	Round Disc	12"/300 (mm)	< 8	>= 623	< 5%	Yes

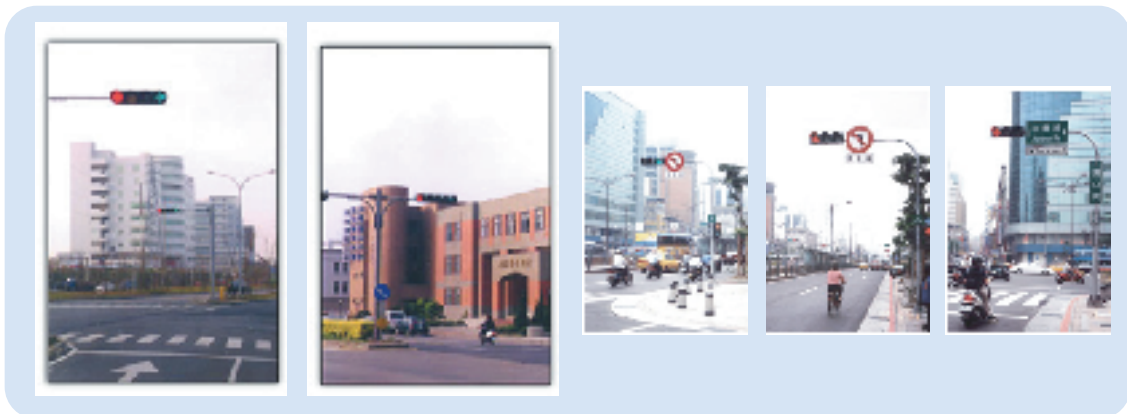
# 12" VEHICLE TRAFFIC SIGNALS

Meet CNS specification

## Specifications

- Operates at -10°C to +74°C.
- UV stabilized scratch resistant shell.
- Moisture Ingress: Meet CNS 14165 IP66.
- Surge protection: Meet CNS13022-3 Level2.
- Power Factor greater than 0.9.
- Operating Voltage Range: 80V~135V.
- Total Harmonic Distortion: < 20%.
- EMI: Meet CNS 13438 Class A.

Color	Model Number	Model type	Size	Power Consumption (Watt)	Dominant Wavelength (nm)	Intensity loss Due to Single LED failure	Temperature compensation
Green	TRA-G12DG-G	Round Disc	12"/300 (mm)	< 10	499~509	< 5%	Yes
Green	TRV-Y12EG-B	Round Disc	12"/300 (mm)	< 15	499~509	< 5%	Yes
Amber	TRV-Y12EG-C	Round Disc	12"/300 (mm)	< 18	585~596	< 5%	Yes
Red	TRV-R12EG-B	Round Disc	12"/300 (mm)	< 14	>= 618	< 5%	Yes



# 1 2" VEHICLE TRAFFIC SIGNALS

Version applicable in China

## Specifications

- Operates at -40°C to +74°C.
- UV stabilized scratch resistant shell.
- Moisture Ingress: Meet IP66.
- Fuse and transient suppressor incorporated for line and load protection.
- Power Factor greater than 0.9.
- Operating Voltage Range: 80V~250V.

Color	Model Number	Model type	Size	Power Consumption (Watt)	Dominate Wavelength (nm)	Intensity loss Due to Single LED failure	Temperature compensation
Green	TRV-G12EF-Z2	Round Disc	12"/300 (mm)	< 15	495~515	< 5%	Yes
Green	TRA-G12DF-T2	Round Disc	12"/300 (mm)	< 8	495~515	< 5%	Yes
Amber	TRV-Y12EF-B2	Round Disc	12"/300 (mm)	< 14	585	< 5%	Yes
Amber	TRA-Y12DF-T2	Round Disc	12"/300 (mm)	< 8	585~596	< 5%	Yes
Red	TRV-R12EF-B2	Round Disc	12"/300 (mm)	< 14	>= 618	< 5%	Yes
Red	TRA-R12DF-T2	Round Disc	12"/300 (mm)	< 8	>= 618	< 5%	Yes

# 1 2" VEHICLE TRAFFIC SIGNALS

## DC12V Traffic Signals

### Specifications

- Operates at -40°C to +74°C.
- UV stabilized scratch resistant shell.
- Moisture Ingress: Meet IP66.
- Fuse and transient suppressor incorporated for line and load protection.
- Operating Voltage Range: DC11V~DC13V.

Color	Model Number	Model type	Size	Power Consumption (Watt)	Dominate Wavelength (nm)	Intensity loss Due to Single LED failure
Green	TRV-G12EB-D	Round Disc	12"/300 (mm)	< 12	495~515	< 5%
Amber	TRV-Y12EB-A	Round Disc	12"/300 (mm)	< 12	585~596	< 5%
Red	TRV-R12EB-A	Round Disc	12"/300 (mm)	< 12	>= 618	< 5%